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INFORMATION REPORT

CD NO. 25X1A

COUNTRY Czechoslovakia

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SUBJECT New Method of Manufacture of Time Fuses

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1. A new compound to be used in the manufacture of timefuses has been developed. A mixture of PbCrO_4 and S, or PbCrO_4 and $\text{Pb}(\text{CNS})_2$ is mixed together with a non-explosive gluing agent and formed into small tablets. It takes one tablet one second to burn. According to the time necessary for delaying the explosion, an appropriate number of tablets is put into a tube which is then safely inserted into the explosive agent.
2. Advantages of the new compound are that it burns with regularity, ignites easily, and releases comparatively little heat while burning.
3. The old time fuses were pressed sticks made from a mixture of minium and sulphur. Potassium chlorate (chlorocenn draselny) was sometimes added. This compound did not burn reliably and tended to explode while being pressed into sticks. Experiments were made with mixtures containing metallic silicon (kovovy kramik) or, in the USSR, selenium, but the same defects continued.
4. The above method reportedly has been tried and proved successful.

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